CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/CEMENT/2015-16 Date: 18.04.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Technical Manager (West),** KRIDL, Bangalore.
***NAME OF THE WORK**	:	Construction of RCC deck at Manjunatha Nagara, Defence Colony, Soundarya Layout, Mallasandra (Opp. Arunodaya Hospital) in Ward No. 14, Bagalagunte, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	16.04.2015
PERIOD OF TESTING	:	16.04.2015 to 18.04.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Chief Executive Officer

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T-2377

Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/SAND-Gradation/2015-16 : 18.04.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC deck at Manjunatha Nagara, Defence Colony, Soundarya Layout, Mallasandra (Opp. Arunodaya Hospital) in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 1

Sample Received on : 16.04.2015

Date of Testing : 18.04.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.90	90-100	90-100	90-100	95-100
2.36	76.40	60-95	75-100	85-100	95-100
1.18	56.20	30-70	55-90	75-100	90-100
600 Micron	36.80	15-34	35-59	60-79	80-100
300 Micron	12.50	5-20	8-30	12-40	15-50
150 Micron	2.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/AGG/GR/2015-16 : 18.04.2015

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC deck at Manjunatha Nagara, Defence Colony, Soundarya Layout, Mallasandra (Opp. Arunodaya Hospital) in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 1

Sample Received on : 16.04.2015

Date of Testing : 18.04.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.52	95-100	85-100
20	41.74	30-70	0-20
10	13.40	10-35	0-5
4.75	2.16	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/W.No.14/KRIDL /STEEL/2015-16 20.04.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC deck at Manjunatha Nagara, Defence Colony, Soundarya Layout, Mallasandra (Opp. Arunodaya Hospital) in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
Date of Test	:	20.04.2015
Technical Reference	:	IS: 1786-2008

DB-14

Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	516	556	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL /STEEL/2015-16 20.04.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC deck at Manjunatha Nagara, Defence Colony, Soundarya Layout, Mallasandra (Opp. Arunodaya Hospital) in Ward No. 14, Bagalagunte, BBMP, Bangalore.
Reference	:	BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015
Date of Test	:	20.04.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	16	1.58	518	562	13.75	O.K	O.K

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Job No.: CTCE/BBMP/W.No.14/KRIDL/CSR-04/817b/CUBE/2015-16 23.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC deck at Manjunatha Nagara, Defence Colony, Soundarya Layout, Mallasandra (Opp. Arunodaya Hospital) in Ward No. 14, Bagalagunte, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/2015-16 Dated: 16.04.2015

*** Sample ID** : Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28^{th} day

Sample Received on : 25.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2015	23.05.2015	8.143	362.8	16.12
2	25.04.2015	23.05.2015	8.251	379.5	16.87
3	25.04.2015	23.05.2015	8.362	393.4	17.48

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